

TABLE 6

Preliminary federal obligations for research and experimental development, by agency and type of R&D: FY 2022

(Dollars in thousands)

Agency	Total R&D	Basic research	Applied research	Experimental development		
				Total	Advanced technology	Major systems
All agencies	189,058,891	43,790,457	44,673,778	100,594,656	10,488,317	54,607,650
Departments						
Department of Agriculture	3,266,354	1,458,701	1,558,776	248,877	na	na
Agricultural Marketing Service	14,968	0	7,484	7,484	na	na
Agricultural Research Service	1,599,000	799,500	639,600	159,900	na	na
Animal and Plant Health Inspection Service	44,580	23,363	0	21,217	na	na
Economic Research Service	90,389	0	90,389	0	na	na
Forest Service	345,000	95,083	194,781	55,136	na	na
National Agricultural Statistics Service	11,467	0	6,327	5,140	na	na
National Institute of Food and Agriculture	1,147,558	527,876	619,681	0	na	na
Natural Resources Conservation Service	13,393	12,878	514	0	na	na
Department of Commerce	2,042,768	287,118	1,473,125	282,525	na	na
Census Bureau	148,927	0	110,367	38,560	na	na
National Institute of Standards and Technology	890,837	287,118	530,008	73,711	na	na
National Oceanic and Atmospheric Administration	995,804	0	825,550	170,254	na	na
National Telecommunications and Information Administration	7,200	0	7,200	0	na	na
Department of Defense	75,473,326	2,976,752	7,400,607	65,095,967	10,488,317	54,607,650
Defense Advanced Research Projects Agency	3,809,053	512,844	1,483,950	1,812,259	1,639,449	172,810
Defense Health Agency	2,537,305	15,570	158,831	2,362,905	1,667,967	694,938
Department of the Air Force	13,244,994	724,626	1,697,363	10,823,005	989,532	9,833,473
Department of the Army	12,933,505	586,322	1,502,296	10,844,886	2,127,203	8,717,683
Department of the Navy	18,668,983	852,383	1,229,568	16,587,032	1,004,613	15,582,419
Space Force	4,593,357	76,353	0	4,517,004	0	4,517,004
Other defense agencies	19,686,128	208,654	1,328,599	18,148,876	3,059,553	15,089,322
Department of Education	406,774	33,255	260,178	113,341	na	na
Department of Energy	13,911,600	5,947,161	4,523,208	3,441,231	na	na
Advanced Research Projects Agency—Energy	450,000	0	225,000	225,000	na	na
Electricity Delivery and Energy Reliability	127,064	8,401	59,361	59,302	na	na
Energy Efficiency and Renewable Energy	2,062,099	0	677,946	1,384,153	na	na
Environmental Management	35,000	0	11,550	23,450	na	na
Fossil Energy	736,176	0	736,176	0	na	na
National Nuclear Security Administration	4,106,601	123,085	2,403,869	1,579,646	na	na
Defense Programs	2,492,463	0	2,257,778	234,685	na	na
Naval Nuclear Propulsion Program	1,246,109	0	0	1,246,109	na	na
Office of Defense Nuclear Nonproliferation	368,029	123,085	146,092	98,852	na	na
Nuclear Energy	479,455	0	330,824	148,631	na	na
Office of Cybersecurity, Energy Security, and Emergency Response	119,800	20,270	78,481	21,049	na	na
Office of Science	5,795,405	5,795,405	0	0	na	na
Department of Health and Human Services	69,152,856	21,411,636	21,258,821	26,482,399	na	na
Administration for Children and Families	4,265	0	4,265	0	na	na
Administration for Community Living	110,863	0	110,863	0	na	na
Agency for Healthcare Research and Quality	350,400	0	314,345	36,055	na	na
Agency for Toxic Substances and Disease Registry	10,935	0	10,935	0	na	na
Biomedical Advanced Research and Development Authority	26,433,481	0	0	26,433,481	na	na

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Centers for Disease Control and Prevention	661,450	96,501	552,086	12,863	na	na
Centers for Medicare and Medicaid Services	420,703	420,703	0	0	na	na
Food and Drug Administration	669,007	0	669,007	0	na	na
Health Resources and Services Administration	38,189	3,399	34,790	0	na	na
National Institutes of Health	40,436,064	20,891,033	19,545,031	0	na	na
Office of the Secretary of Health and Human Services	17,500	0	17,500	0	na	na
Office of the Assistant Secretary for Planning and Evaluation	17,500	0	17,500	0	na	na
Department of Homeland Security	600,768	67,631	248,069	285,068	na	na
Coast Guard	7,476	0	2,243	5,233	na	na
Countering Weapons of Mass Destruction Office	38,940	6,631	24,324	7,985	na	na
Cybersecurity and Infrastructure Security Agency	11,282	0	3,502	7,780	na	na
Science and Technology Directorate	506,000	61,000	216,000	229,000	na	na
Secret Service	2,070	0	0	2,070	na	na
Transportation Security Administration	35,000	0	2,000	33,000	na	na
Department of the Interior	1,164,686	174,008	817,025	173,653	na	na
Bureau of Indian Affairs	4,000	0	4,000	0	na	na
Bureau of Land Management	12,049	2,004	8,579	1,466	na	na
Bureau of Ocean Energy Management	83,642	0	67,918	15,724	na	na
Bureau of Reclamation	41,500	0	21,500	20,000	na	na
Bureau of Safety and Environmental Enforcement	15,768	1,500	14,018	250	na	na
Fish and Wildlife Service	32,650	0	32,650	0	na	na
Geological Survey	946,723	170,504	641,138	135,081	na	na
National Park Service	28,354	0	27,222	1,132	na	na
Department of Justice	88,162	8,265	74,032	5,865	na	na
Bureau of Prisons	*	0	*	*	na	na
Federal Bureau of Investigation	5,396	0	5,396	0	na	na
Office of Justice Programs	82,756	8,265	68,634	5,857	na	na
Department of Labor	3,803	0	3,803	0	na	na
Employee Benefits Security Administration	1,569	0	1,569	0	na	na
Occupational Safety and Health Administration	2,234	0	2,234	0	na	na
Department of State	67,000	7,000	40,000	20,000	na	na
Department of Transportation	1,096,384	9,016	803,325	284,043	na	na
Federal Aviation Administration	516,262	0	271,685	244,578	na	na
Federal Highway Administration	390,819	0	361,044	29,775	na	na
Federal Motor Carrier Safety Administration	16,000	900	14,100	1,000	na	na
Federal Railroad Administration	50,802	0	42,112	8,690	na	na
Federal Transit Administration	33,000	0	33,000	0	na	na
National Highway Traffic Safety Administration	50,000	0	50,000	0	na	na
Office of the Secretary of Transportation	15,022	0	15,022	0	na	na
Pipeline and Hazardous Materials Safety Administration	24,479	8,116	16,363	0	na	na
Department of the Treasury	65,079	5,900	44,134	15,045	na	na
Bureau of Engraving and Printing	64,373	5,900	44,081	14,392	na	na

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Mint	706	0	53	653	na	na
Department of Veterans Affairs	1,831,467	670,701	1,002,408	158,358	na	na
Other agencies						
Administrative Office of the U.S. Courts	1,443	0	1,443	0	na	na
Agency for Global Media	7,884	0	7,884	0	na	na
Agency for International Development	81,698	0	51,211	30,487	na	na
Appalachian Regional Commission	122	0	122	0	na	na
Consumer Product Safety Commission	440	0	440	0	na	na
Environmental Protection Agency	525,457	0	406,371	119,086	na	na
Federal Trade Commission	8,571	0	8,571	0	na	na
Library of Congress	2,899	0	493	2,406	na	na
National Aeronautics and Space Administration	11,403,647	4,588,766	3,009,641	3,805,240	na	na
National Science Foundation	7,035,853	6,049,547	986,305	0	na	na
Nuclear Regulatory Commission	81,663	0	78,147	3,516	na	na
Patient-Centered Outcomes Research Trust Fund	481,465	0	481,465	0	na	na
Postal Service	15,702	0	15,702	0	na	na
RESTORE Act Centers of Excellence Research Grants Program	6,960	0	6,960	0	na	na
Smithsonian Institution	95,000	95,000	0	0	na	na
Social Security Administration	98,560	0	98,560	0	na	na
Tennessee Valley Authority	40,501	0	12,952	27,549	na	na

* = amount greater than \$0 but less than \$50,000.

na = not applicable; data were not collected at this level of detail for this agency or subagency.

Note(s):

Because of rounding, detail may not add to total. Only those agencies and subdivisions that had obligations in variables represented by this table appear in the table. FY 2022 obligations include additional funding provided by supplemental COVID-19 pandemic-related appropriations (e.g., Coronavirus Aid, Relief, and Economic Security [CARES] Act). See technical table A-2 for additional notes associated with the agencies listed in this table.

Source(s):

National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development, FYs 2021–22.